

### Abstract

A process for overcoating multicoat paint systems comprising a color and/or effect basecoat (A) produced from an aqueous basecoat material (A) and a clearcoat (B) produced from a liquid clearcoat material (B), comprises

- (1) applying by pneumatic spray application to the multicoat paint systems the extract, free from opaque pigments, of the aqueous basecoat material (A) or of a corresponding aqueous basecoat material,
- (2) flashing off and/or drying the resulting film (1) without curing it completely,
- (3) coating by pneumatic spray application at a reduced spraying pressure the resulting flashed off and/or dried film (2) with the aqueous basecoat material (A) or a corresponding aqueous basecoat material,
- (4) flashing off and/or drying the resulting aqueous basecoat film (3) without curing it completely,
- (5) coating the resulting flashed off and/or dried aqueous basecoat film (4) with a liquid clearcoat material, and
- (6) jointly curing the resulting clearcoat film (5), the aqueous basecoat film (4) and the film (1), and, where appropriate, any further uncured films that are present.